

## PCB terminal block - MKDS 5N HV/ 8-ZB-6,35 - 1777600

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)

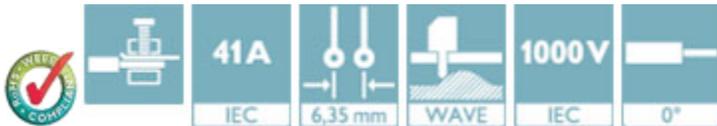


PCB terminal block, Nominal current: 41 A, Nom. voltage: 1000 V, Pitch: 6.35 mm, Number of positions: 8, Connection method: Screw connection with tension sleeve, Mounting: Wave soldering, Conductor/PCB connection direction: 0°, Color: green

The illustration shows the 5-pos. version

### Product Features

- Versions with anti-rotation pins (MKDSV, recommended for 2-pos. connections)
- MKDS 5N HV high-voltage PCB terminal blocks with increased clearances and creepage distances
- Unlimited 600 V UL approval thanks to compact zigzag pinning (MKDS 5N HV/...ZB-6,35 and MKDS 5 HV/...-9,52-Z)



### Key Commercial Data

Packing unit	1 pc
Minimum order quantity	50 pc
Weight per Piece (excluding packing)	26.0 g
Custom tariff number	85369010
Country of origin	Poland

### Technical data

#### Dimensions

Length	15.85 mm
Pitch	6.35 mm
Dimension a	44.45 mm
Constructional height	27 mm
Height	27 mm
Length of the solder pin	5 mm
Pin dimensions	0,9 x 0,9 mm
Pin spacing	9 mm

# PCB terminal block - MKDS 5N HV/ 8-ZB-6,35 - 1777600

## Technical data

### Dimensions

Hole diameter	1.3 mm
---------------	--------

### General

Range of articles	MKDS 5 N HV
Insulating material group	I
Rated surge voltage (III/3)	8 kV
Rated surge voltage (III/2)	8 kV
Rated surge voltage (II/2)	8 kV
Rated voltage (III/3)	800 V
Rated voltage (III/2)	1000 V
Rated voltage (II/2)	1000 V
Connection in acc. with standard	EN-VDE
Nominal current $I_N$	41 A
Nominal cross section	4 mm <sup>2</sup>
Maximum load current	41 A
Insulating material	PA
Solder pin surface	Sn
Flammability rating according to UL 94	V0
Stripping length	8 mm
Number of positions	8
Screw thread	M3
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm

### Connection data

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	4 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve min.	0.2 mm <sup>2</sup>
Conductor cross section flexible, with ferrule without plastic sleeve max.	4 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve min.	0.25 mm <sup>2</sup>
Conductor cross section flexible, with ferrule with plastic sleeve max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>

## PCB terminal block - MKDS 5N HV/ 8-ZB-6,35 - 1777600

### Technical data

#### Connection data

2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, min.	0.25 mm <sup>2</sup>
2 conductors with same cross section, stranded, ferrules without plastic sleeve, max.	0.75 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min.	0.5 mm <sup>2</sup>
2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max.	2.5 mm <sup>2</sup>

#### Standards and Regulations

Connection in acc. with standard	EN-VDE
	CUL
Flammability rating according to UL 94	V0

### Classifications

#### eCl@ss

eCl@ss 4.0	27141109
eCl@ss 4.1	27141109
eCl@ss 5.0	27141190
eCl@ss 5.1	27141190
eCl@ss 6.0	27261101
eCl@ss 7.0	27440401
eCl@ss 8.0	27440401
eCl@ss 9.0	27440401

#### ETIM

ETIM 3.0	EC001121
ETIM 4.0	EC002643
ETIM 5.0	EC002643

#### UNSPSC

UNSPSC 6.01	30211801
UNSPSC 7.0901	39121432
UNSPSC 11	39121432
UNSPSC 12.01	39121432
UNSPSC 13.2	39121432

# PCB terminal block - MKDS 5N HV/ 8-ZB-6,35 - 1777600

## Approvals

Approvals

---

Approvals

SEV / CCA / EAC / EAC / cULus Recognized

---

Ex Approvals

---

Approvals submitted

---

## Approval details

SEV	
mm <sup>2</sup> /AWG/kcmil	4
Nominal voltage UN	1000 V

CCA	
mm <sup>2</sup> /AWG/kcmil	4
Nominal voltage UN	1000 V

EAC
-----

EAC
-----

cULus Recognized		
	B	C
mm <sup>2</sup> /AWG/kcmil	30-10	30-10
Nominal current IN	30 A	30 A
Nominal voltage UN	600 V	600 V

## Accessories

Accessories

Labeled terminal marker

## PCB terminal block - MKDS 5N HV/ 8-ZB-6,35 - 1777600

### Accessories

Marker card - SK 6,2/3,8:FORTL.ZAHLEN - 0804374



Marker card, Card, white, labeled, Horizontal: Consecutive numbers 1 - 10, 11 - 20, etc. up to 91 - (99)100, Mounting type: Adhesive, for terminal block width: 6.2 mm, Lettering field: 6.2 x 3.8 mm

Marker card - SK 3,8 REEL P6,2 WH CUS - 0825126



Marker card, can be ordered: By card, white, labeled according to customer specifications, Mounting type: Adhesive, for terminal block width: 6.2 mm, Lettering field: continuous x 3.8 mm

### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

### Terminal marking

Marker card - SK U/3,8 WH:UNBEDRUCKT - 0803906



Marker card, Sheet, white, unlabeled, can be labeled with: Plotter, Office printing systems, Mounting type: Adhesive, Lettering field: 186 x 3.8 mm

Marker strip - SK 3,8 WH:REEL - 0805218



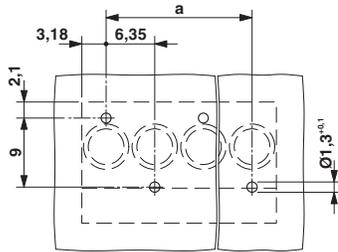
Marker strip, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK X, THERMOMARK S1.1, THERMOMARK ROLL X1, Mounting type: Adhesive, Lettering field: continuous x 3.8 mm

# PCB terminal block - MKDS 5N HV/ 8-ZB-6,35 - 1777600

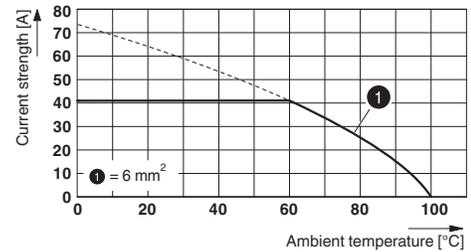
## Accessories

## Drawings

Drilling diagram



Diagram



Type: MKDS 5N HV/...-ZB-6,35  
Tested in accordance with DIN EN 60512-5-2:2003-01  
Reduction factor = 1  
Number of positions: 5

Dimensional drawing

